

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/39737

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C21B 13/00

US CL : 266/44, 901, 216; 75/687

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 266/44, 901, 900, 45, 216; 75/687, 686

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EAST Text search.: (submergence adj chamber) and scrap

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,217,823 B1 (VILD et al) 17 April 2001 (17.04.2001), figures 2 and 4, column 3, line 46 to column 4 line 37.	1-21
Y	US 6,451,247 B1 (MORDUE et al) 17 September 2002 (17.09.2002), figures 1-3 and column 4 lines 25-60.	1-21
A	US 4,286,985 A (VAN LINDEN et al) 01 September 1981 (01.09.1981), figure 2.	1-21
A	US 5,310,412 A (GILBERT et al) 10 May 1994 (10.05.1994), figure 3.	1-21

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

Date of the actual completion of the international search

28 March 2005 (28.03.2005)

Date of mailing of the international search report

07 APR 2005

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